

CHAPTER 9

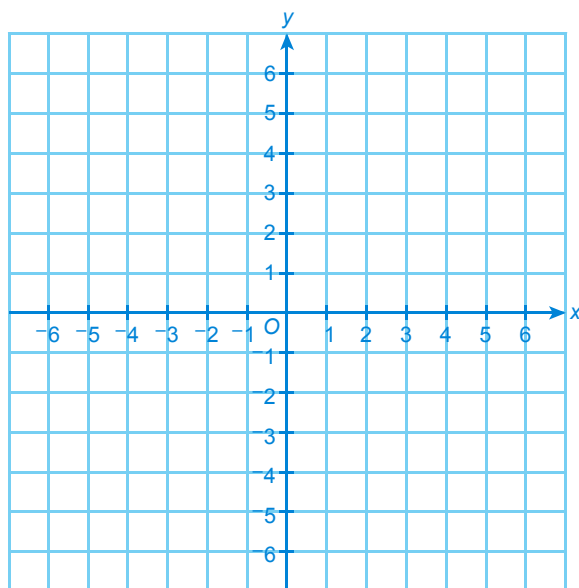
Name : _____ ()

Class : _____ Date : _____

Introduction to Coordinates

[Time allowed: 20 minutes]

1. (a) Mark four points $A(-1, 4)$, $B(-5, -2)$, $C(-1, -2)$ and $D(3, 4)$ on the rectangular coordinate plane. (2 marks)



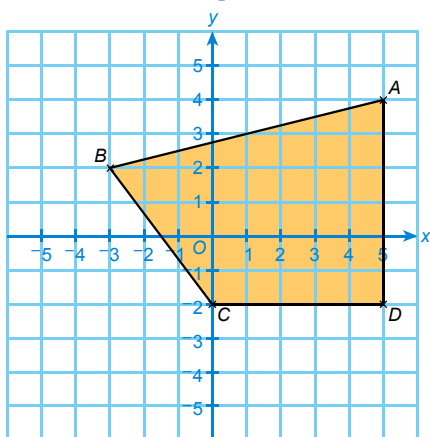
- (b) Join the points according to the order A, B, C, D and A . (2 marks)
- (c) What kind of quadrilateral is $ABCD$? (2 marks)
- (d) Write down the coordinates of the point of intersection of the two diagonals. (2 marks)
- (e) Write down the quadrant where the point of intersection of the two diagonals lies in. (2 marks)

2. It is given that the three vertices of rectangle $ABCD$ are $A(4, 5)$, $B(-2, 5)$ and $C(-2, -2)$.

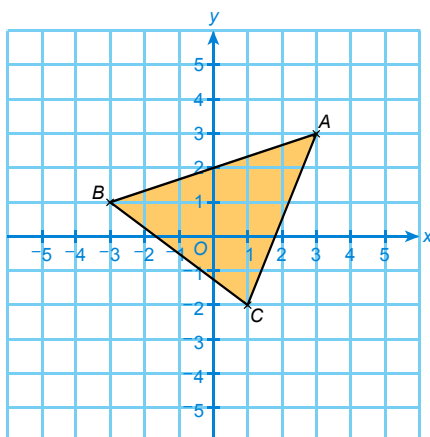
(a) Find the coordinates of vertex D . (2 marks)

(b) Find the perimeter of rectangle $ABCD$. (4 marks)

3. Find the area of quadrilateral $ABCD$ in the following figure. (12 marks)



4. Find the area of $\triangle ABC$ in the following figure. (16 marks)



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